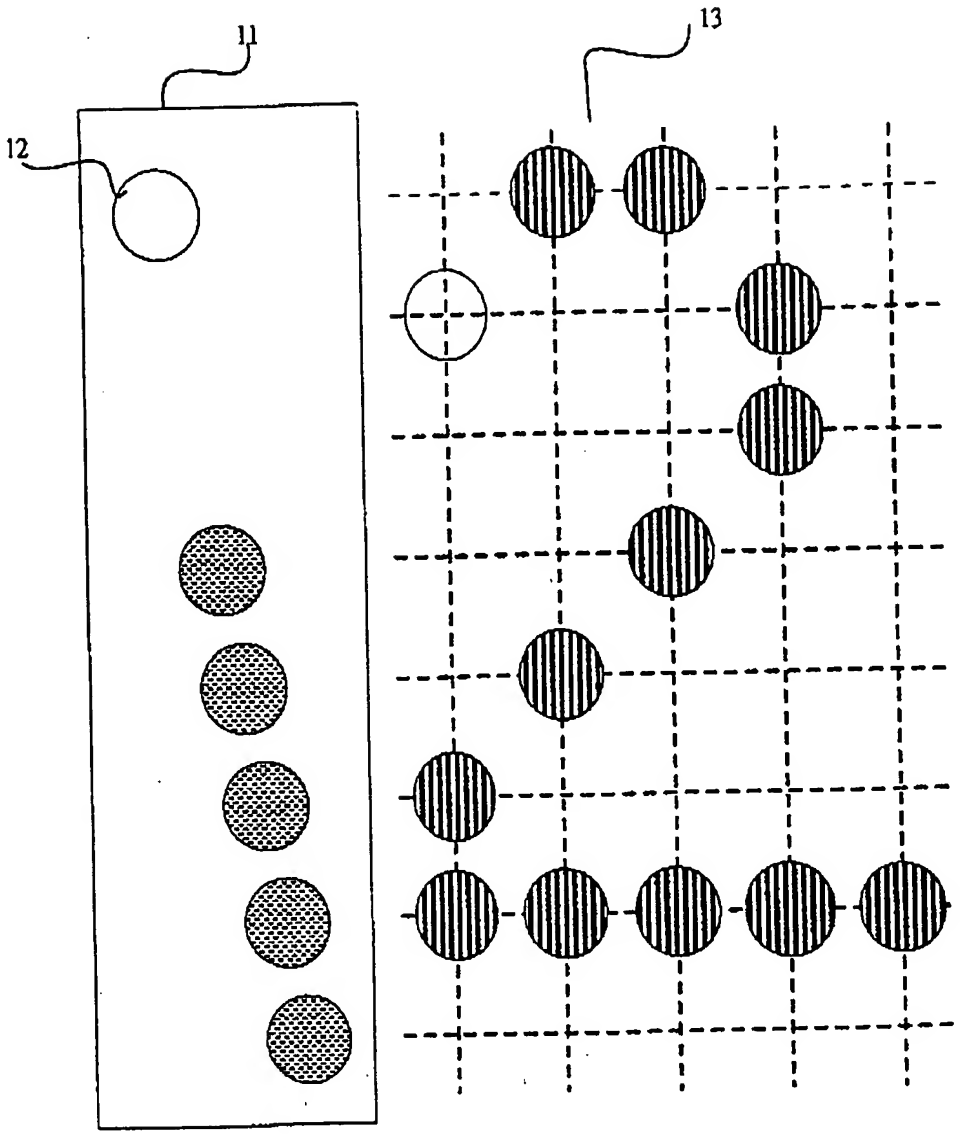


Fig.1(Prior Art)

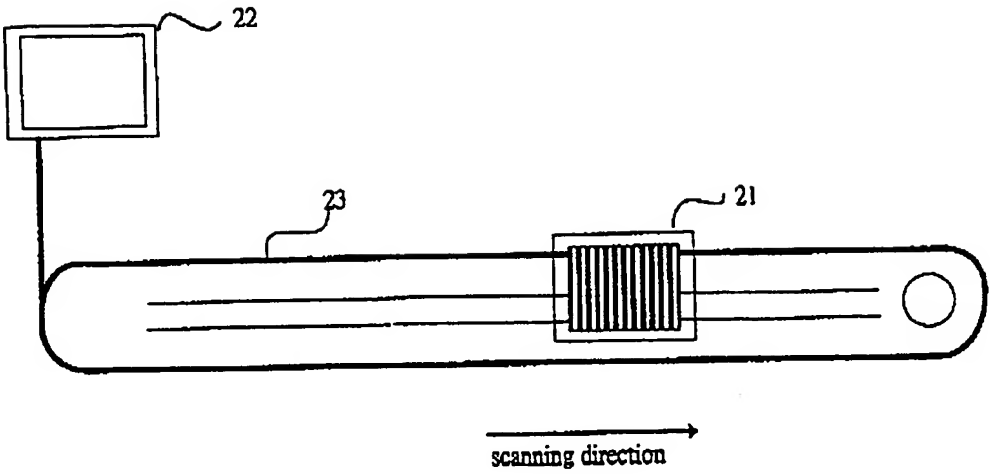


Fig.2(Prior Art)

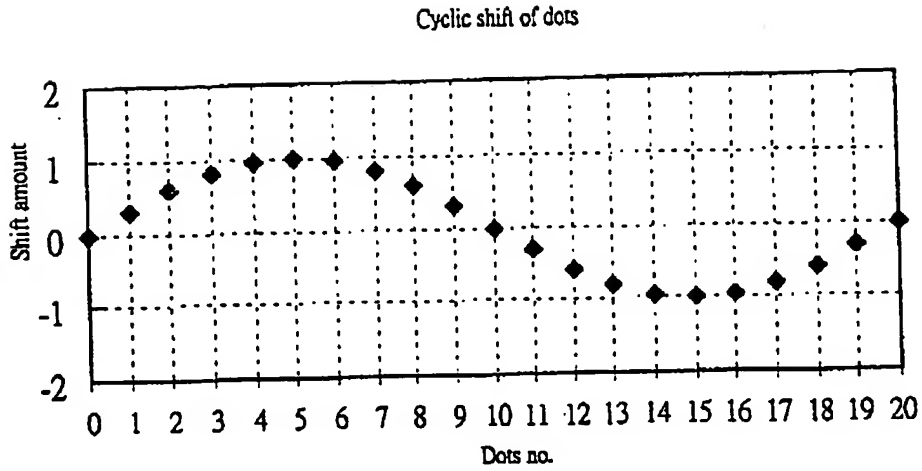


Fig.3a(Prior Art)

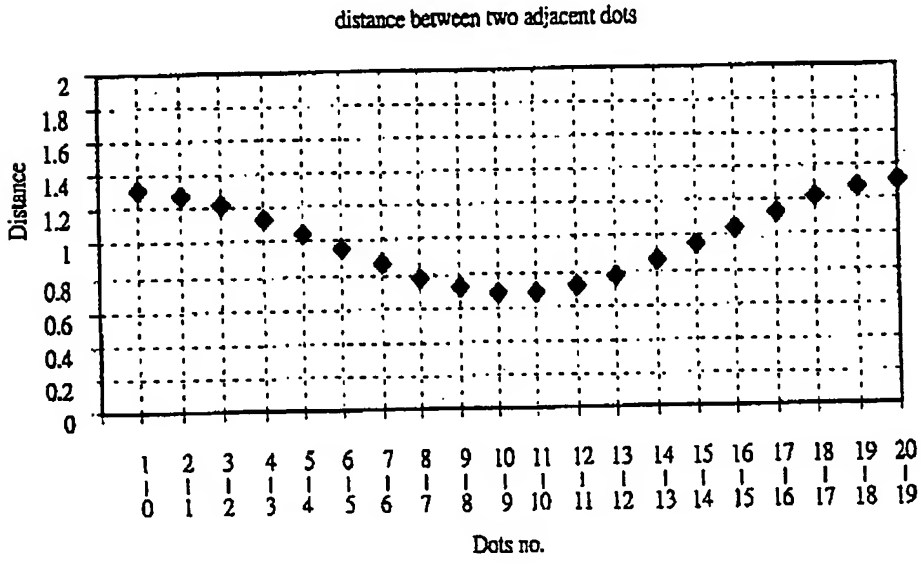


Fig.3b(Prior Art)

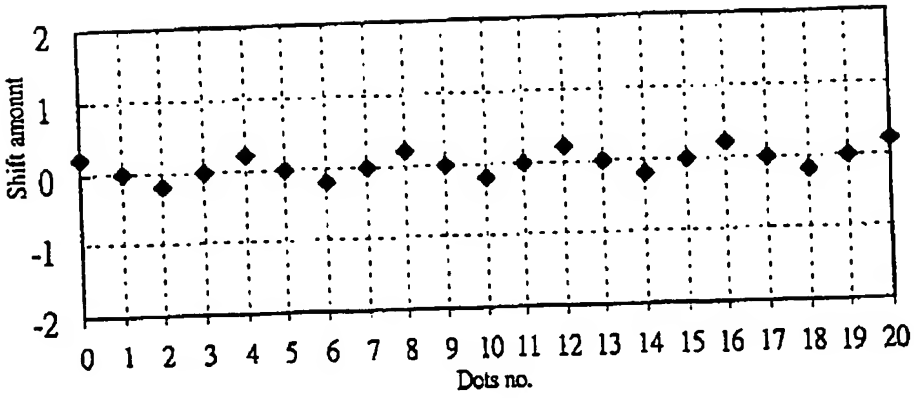


Fig.4a(Prior Art)

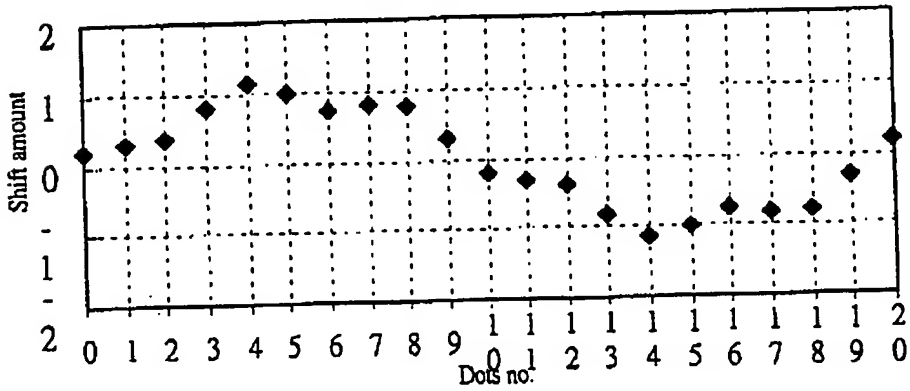


Fig.4b(Prior Art)

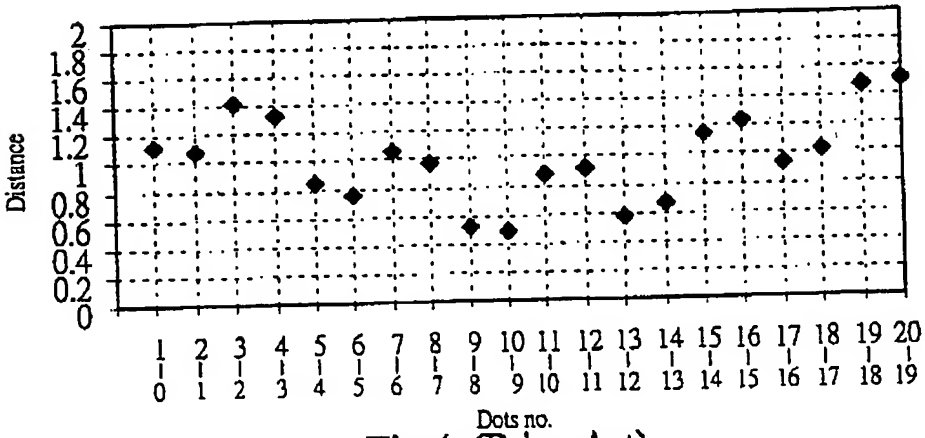
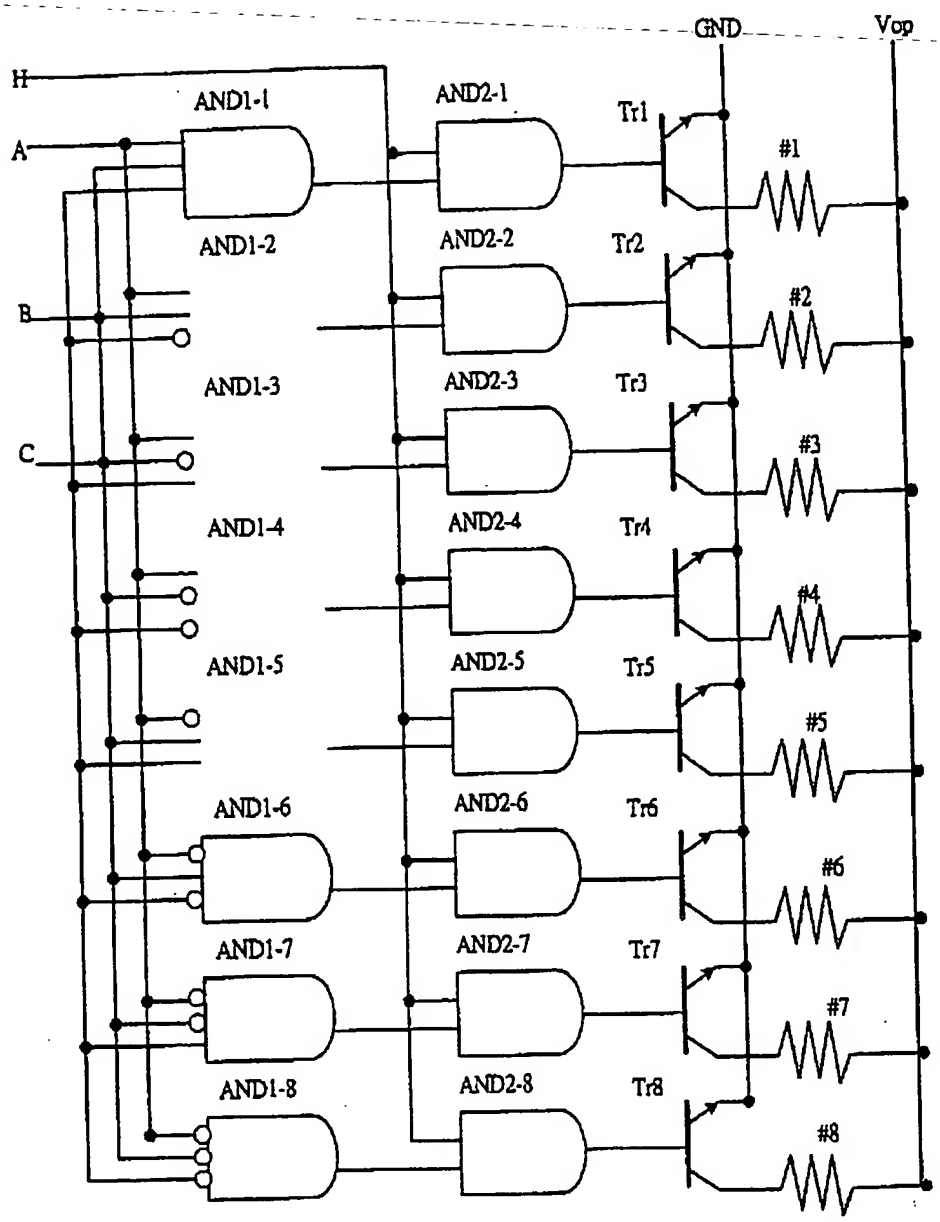


Fig.4c(Prior Art)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Vop
H
A
B
C
AND1-1
AND1-2
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AND1-5
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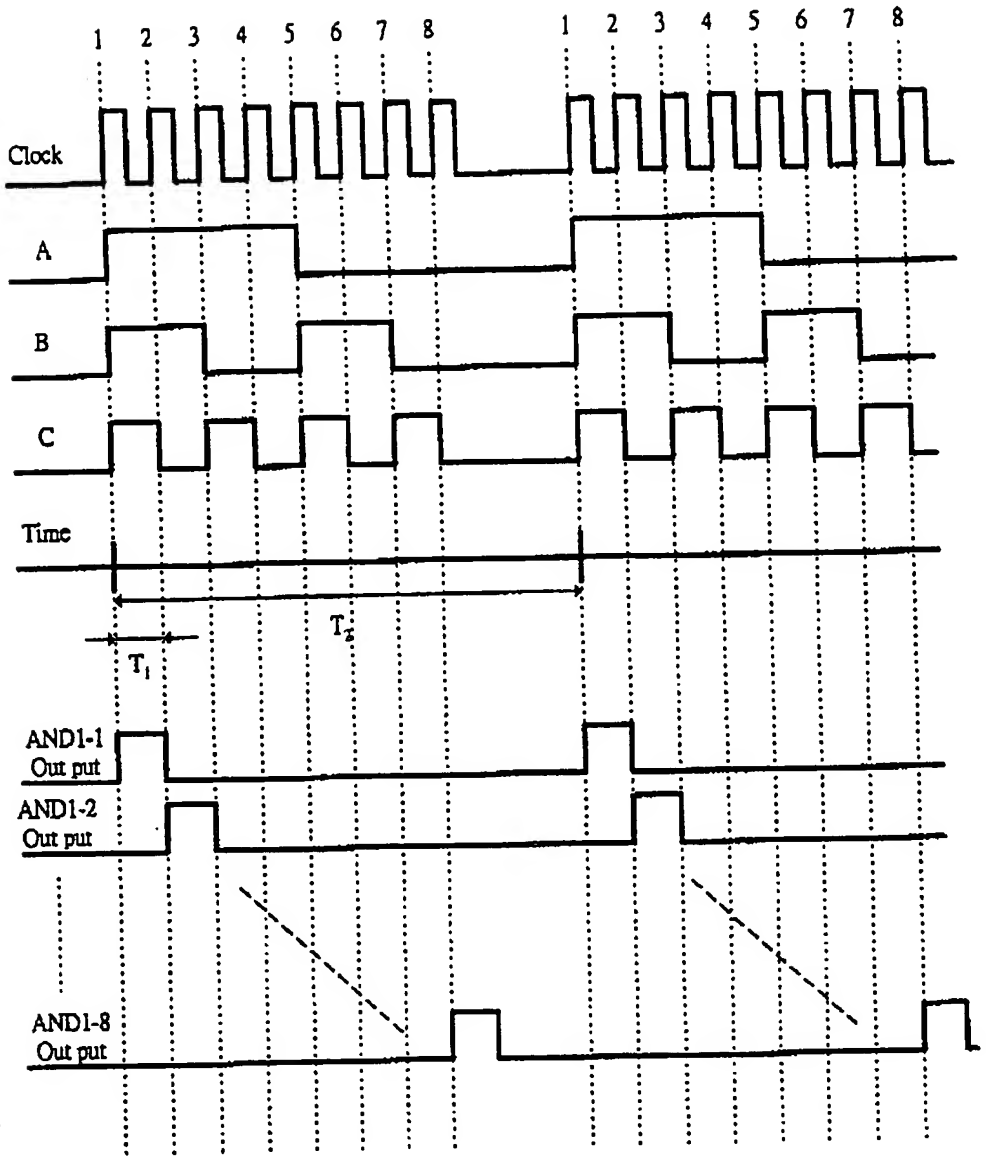
AND1-8
AND2-1
AND2-2
AND2-3
AND2-4
AND2-5
AND2-6
AND2-7
AND2-8
Tr1
Tr2
Tr3
Tr4
Tr5
Tr6
Tr7
Tr8
#1
#2
#3
#4
#5
#6
#7
#8

Fig.5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Clock
A
B
C
Time
T_2
T_1
AND1-1
Out put
AND1-2
Out put
AND1-8
Out put

Fig.6

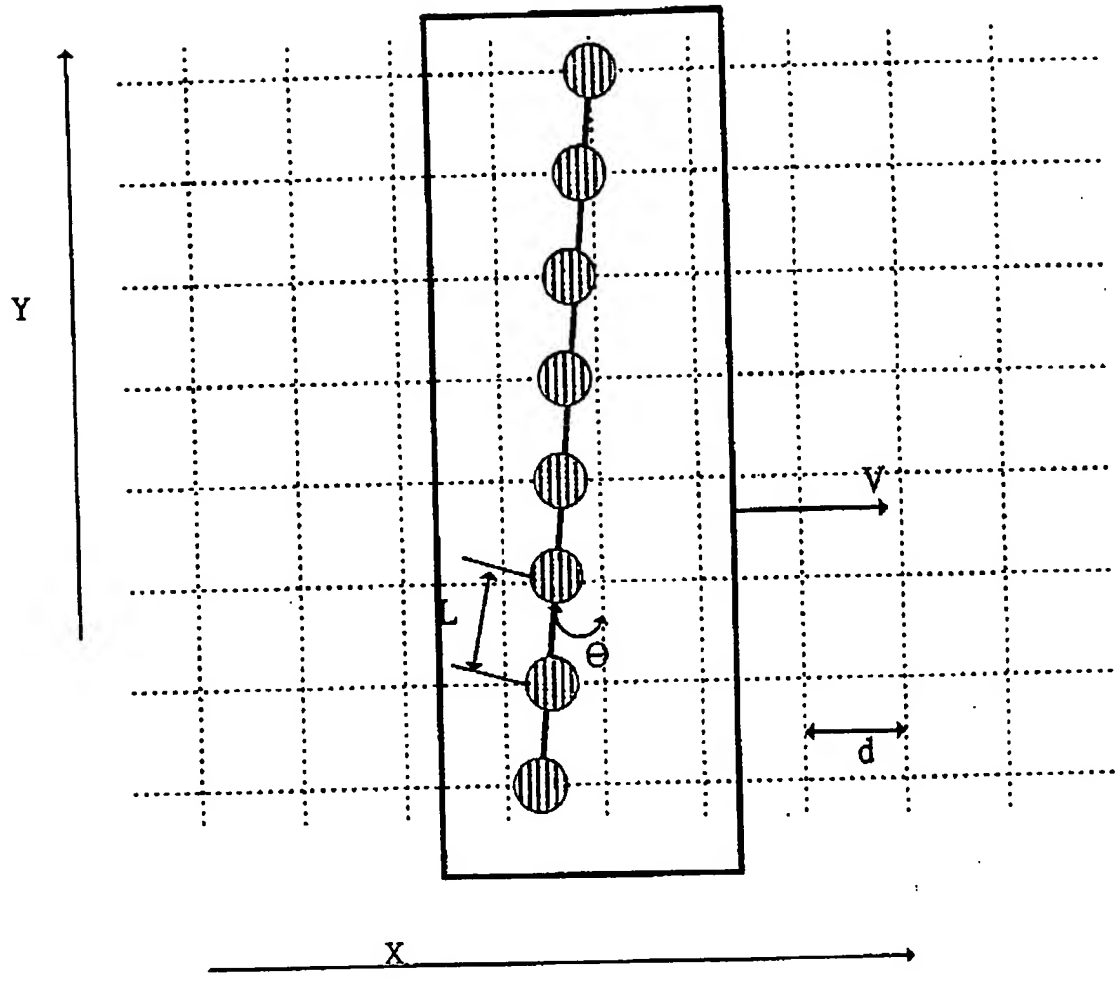

Fig.7

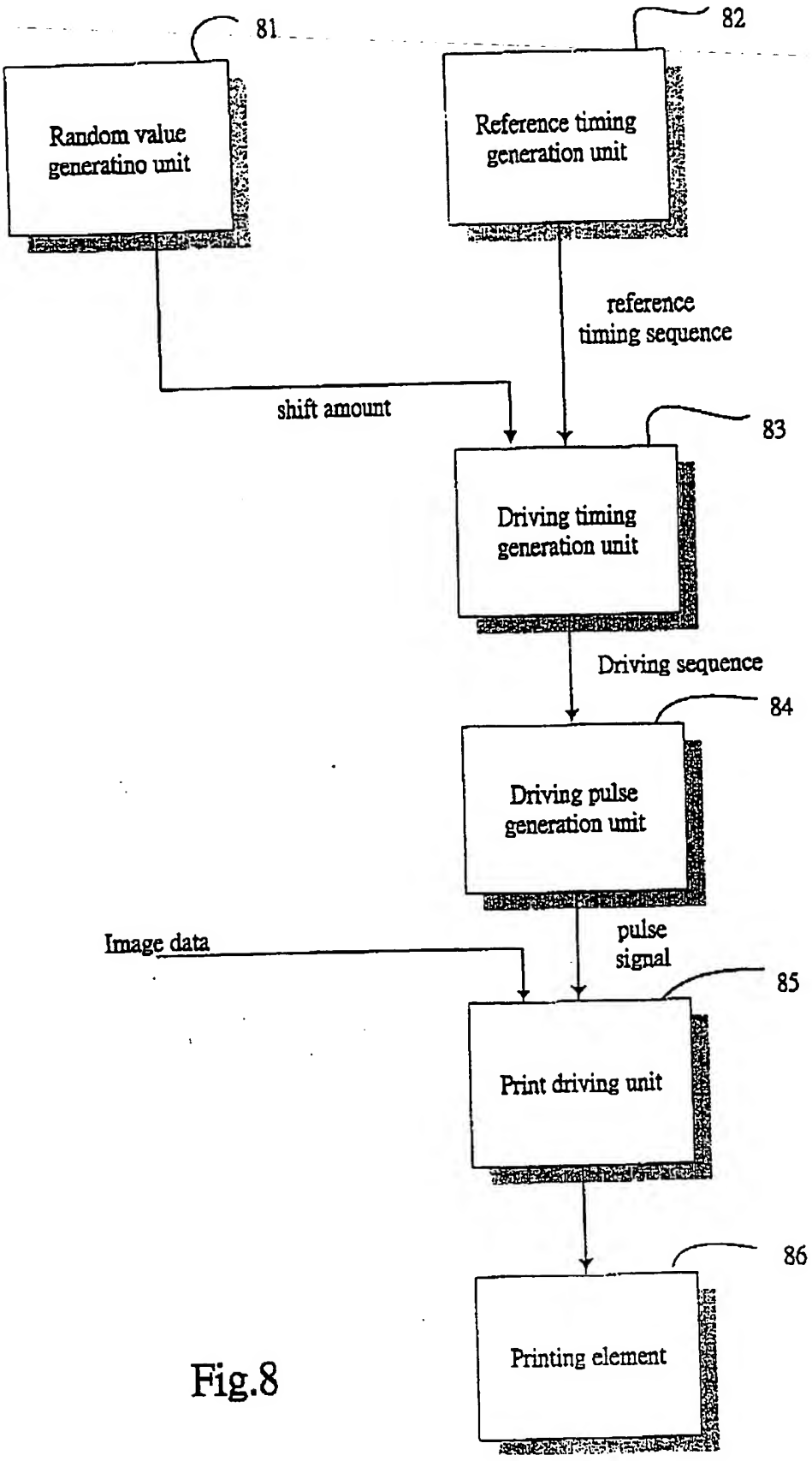
81
82
Random value generatino unit
Reference timing generation unit
reference timing sequence
shift amount
83
Driving timing generation unit
Driving sequence
84
Driving pulse generation unit
Image data
pulse signal
85
Print driving unit
86
Printing element

Fig.8

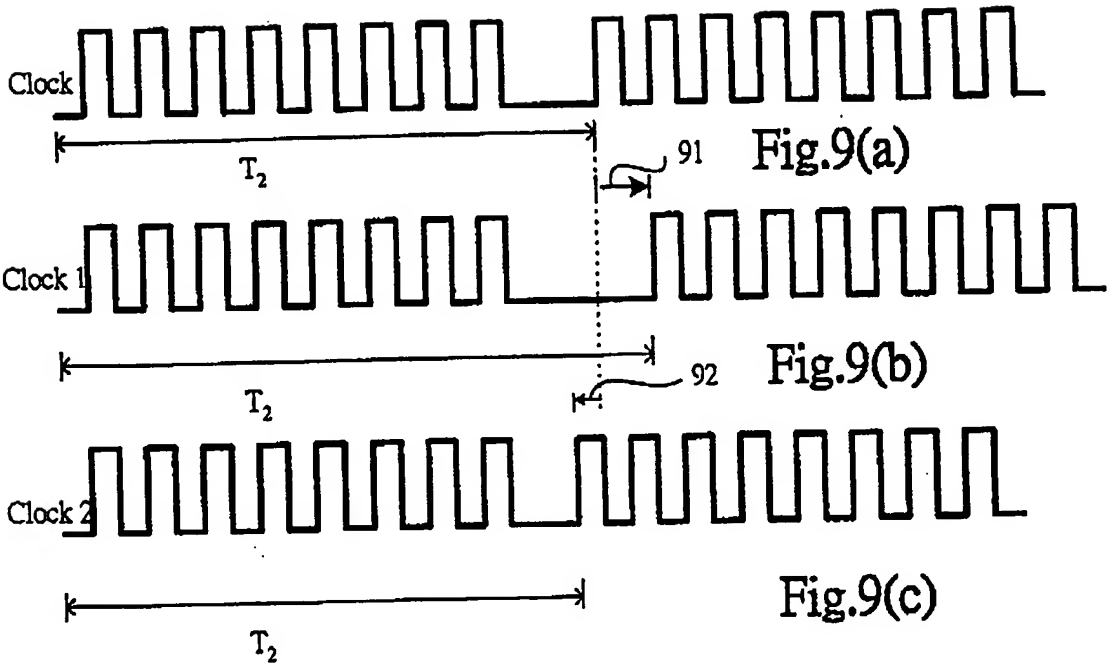

Fig.9(a)

Fig.9(b)

Fig.9(c)

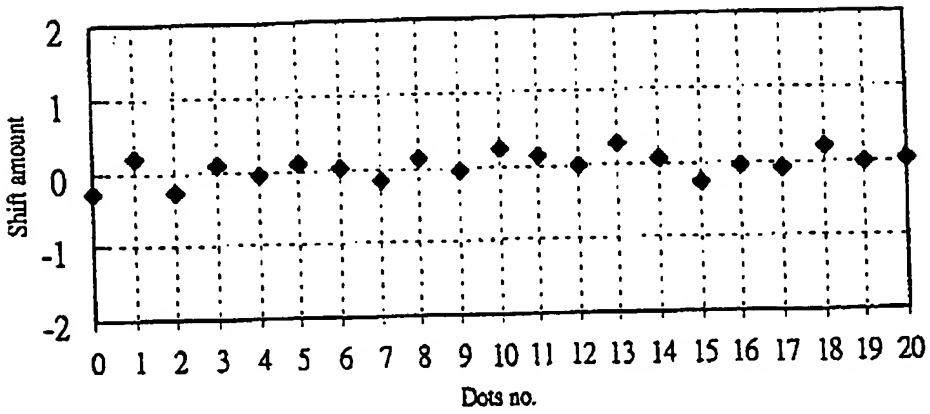

Fig.10a

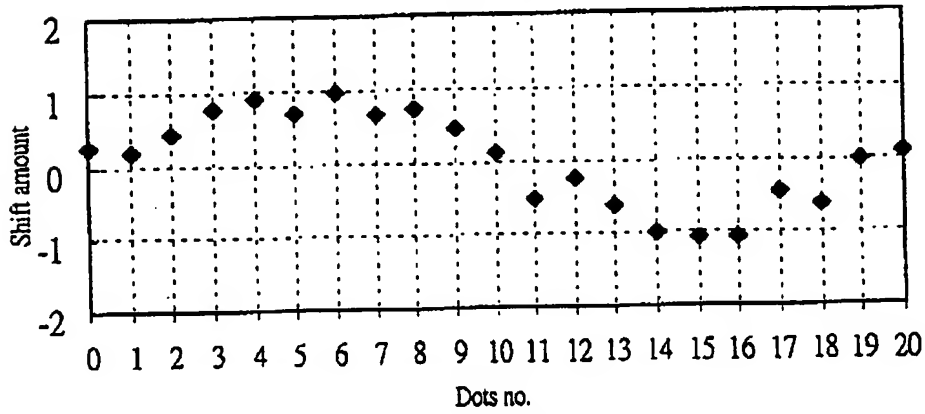

Fig.10b

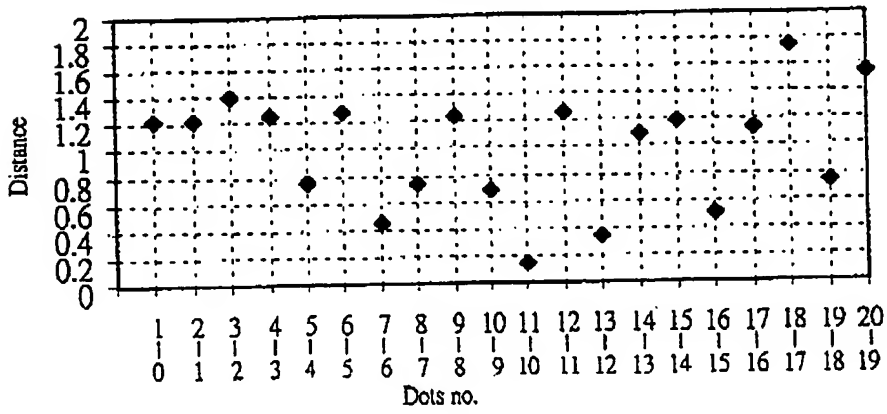

Fig.10c

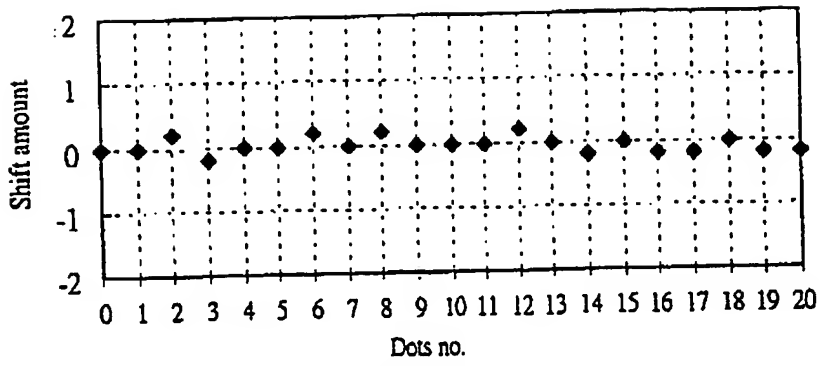

Fig.11a

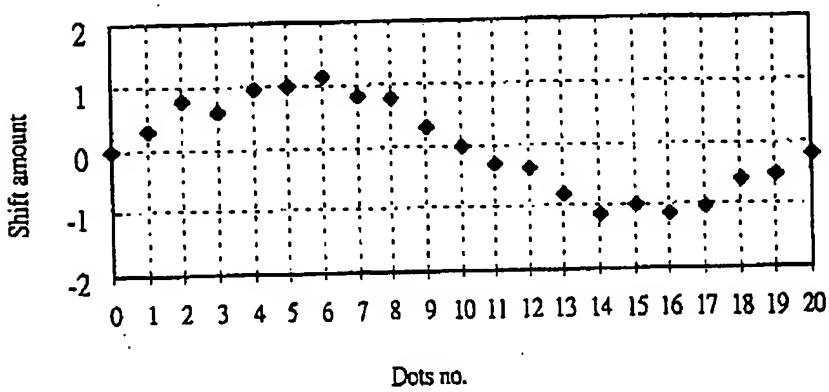

Fig.11b

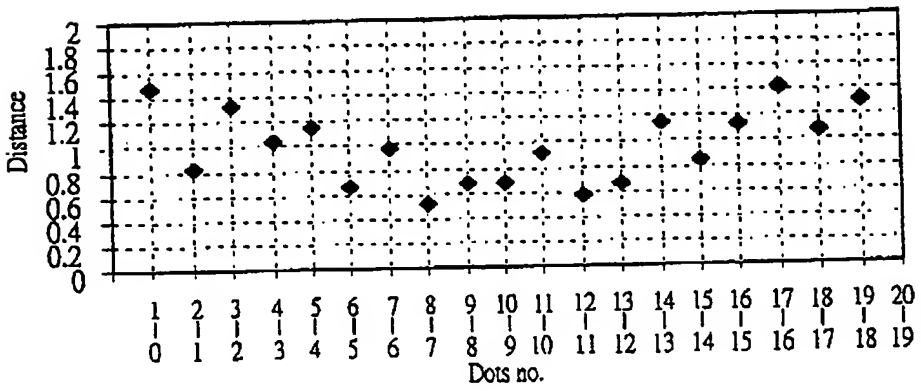

Fig.11c

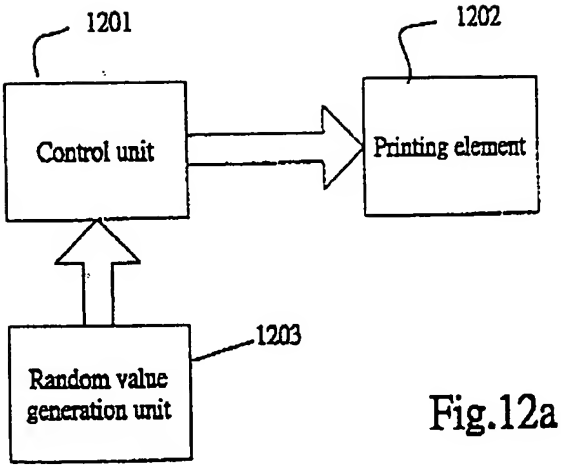

Fig.12a

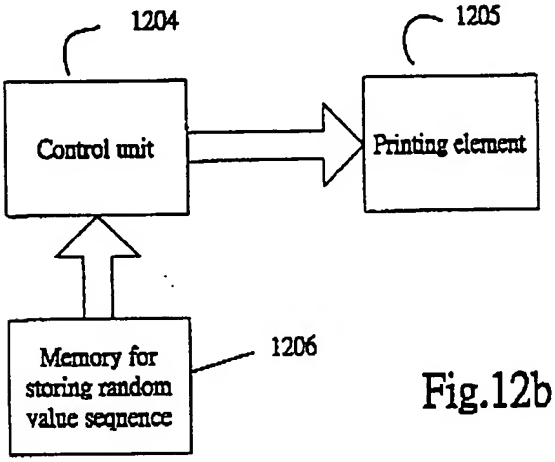

Fig.12b

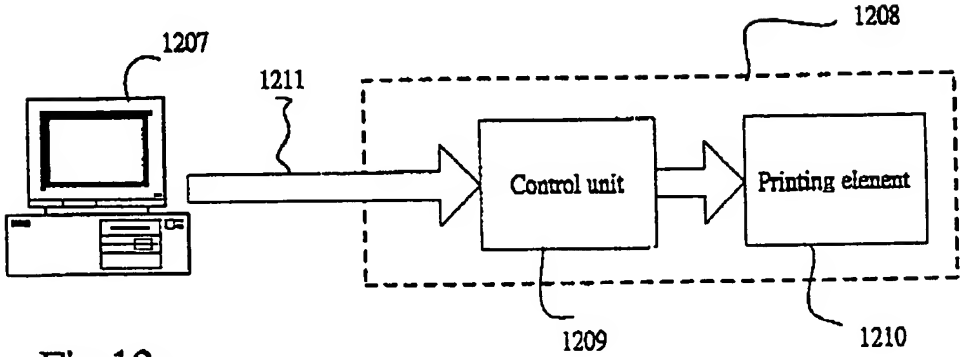

Fig.12c